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PERFORMANCE CHECKSHEET

Model: AVO-9A-B-P-P3-SLAA  
Type: Ultra-High-Speed Laser Diode Driver  
S.N.: 11869  
Date: November 16, 2007

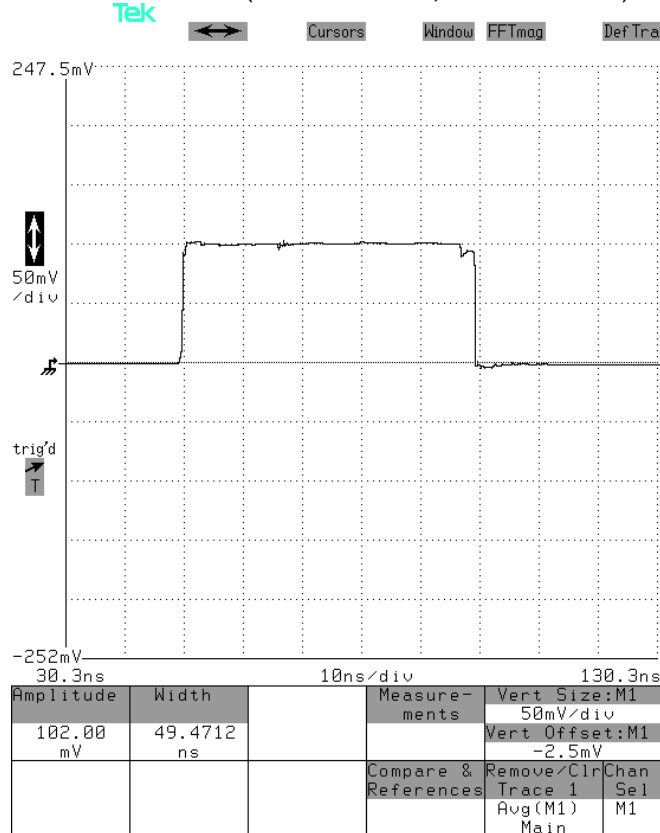
Output Amplitude: +10V / 140 mA maximum  
Pulse Width (FWHM): 2 – 50 ns  
Rise Time (20%-80%): ≤ 200 ps  
Fall Time (80%-20%): ≤ 200 ps  
PRF: 1 Hz - 50 kHz  
Jitter, Stability: OK  
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

Test Waveforms

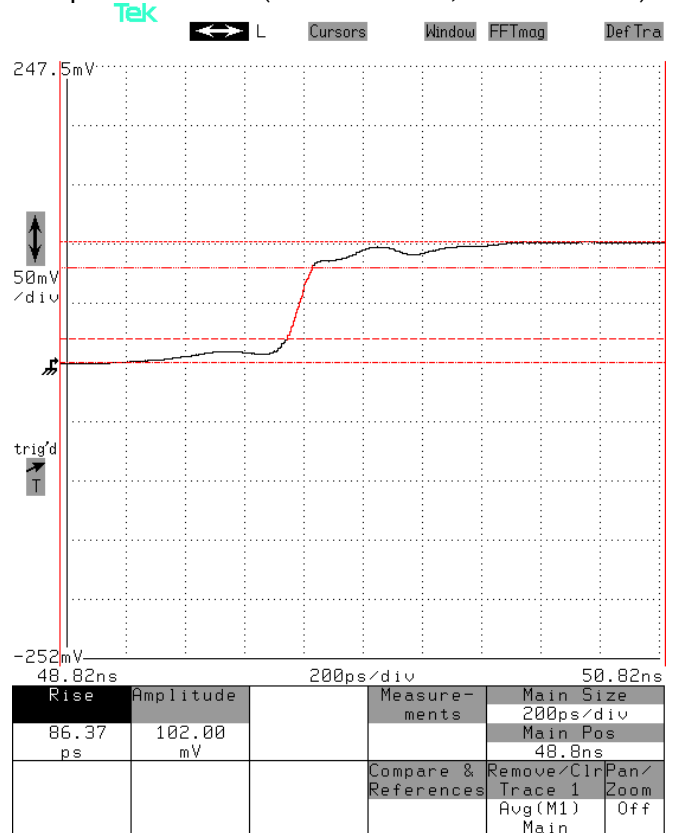
Mainframe output, +10V into 50 Ohms, 50 kHz,  
50 ns pulse width:

10 ns/div, 5 V/div (50 mV×40 dB, = 100 mA/div):



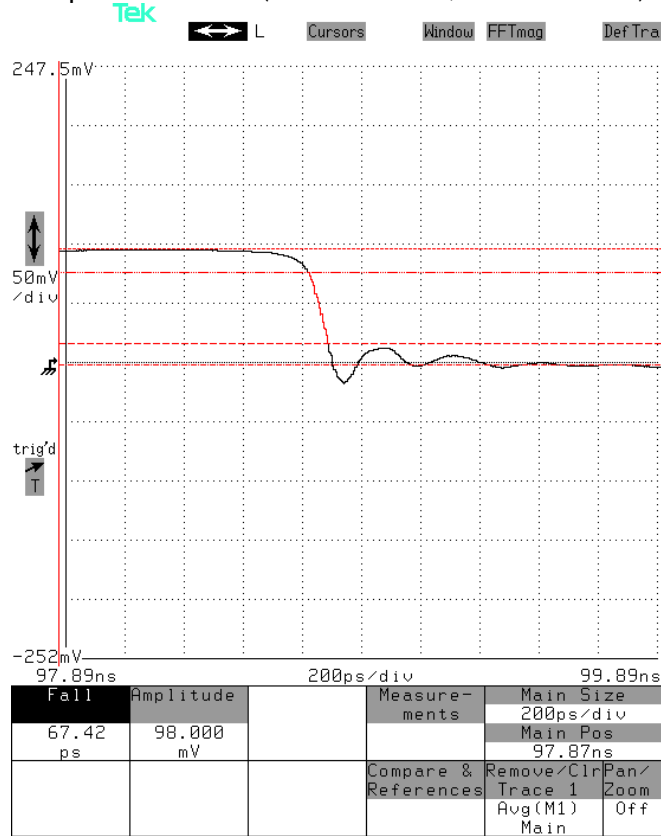
Same as previous pulse, but scaled to show the leading edge:

200 ps/div, 5 V/div (50 mV×40 dB, = 100 mA/div):



Same as previous pulse, but scaled to show the trailing edge:

200 ps/div. 5 V/div (50 mV×40 dB, = 100 mA/div):



“MI” output of AVX-S1-SLAA into 50 Ohms, for +10V, 50 kHz, 50 ns pulse width, with a 10 Ohm resistor installed between pins 2 and 6. The parasitic inductance causes voltage spikes:

10 ns/div. 500 mV/div (50 mV × 20 dB):

